

Title (en)

BIPOLAR PLATE, CELL FRAME, CELL STACK, AND REDOX FLOW CELL

Title (de)

BIPOLARPLATTE, ZELLENRAHMEN, ZELLENSTAPEL UND REDOX-DURCHFLUSSBATTERIE

Title (fr)

PLAQUE BIPOLAIRE, CHÂSSIS DE CELLULE, EMPILEMENT DE CELLULES ET BATTERIE À FLUX RÉDOX

Publication

EP 3573161 A4 20200819 (EN)

Application

EP 17794206 A 20170118

Priority

JP 2017001615 W 20170118

Abstract (en)

[origin: WO2018134928A1] In this bipolar plate in which electrodes of a redox flow cell are arranged, the curvature radii of corners of an outer peripheral edge, when viewed in a cross section orthogonal to the planar surface of the bipolar plate, are in the range of 0.1-4.0 mm inclusive.

IPC 8 full level

H01M 8/18 (2006.01); **H01M 8/0202** (2016.01); **H01M 8/0247** (2016.01); **H01M 8/0273** (2016.01)

CPC (source: CN EP KR US)

H01M 8/0202 (2013.01 - CN); **H01M 8/0247** (2013.01 - EP US); **H01M 8/0273** (2013.01 - CN EP KR US); **H01M 8/188** (2013.01 - CN EP KR US); **H01M 8/2455** (2013.01 - KR); **H01M 8/2459** (2016.02 - KR); **Y02E 60/50** (2013.01 - EP US)

Citation (search report)

- [A] JP 6008225 B1 20161019
- [A] US 2004202915 A1 20041014 - NAKAISHI HIROYUKI [JP], et al
- [A] NAM SOOHYUN ET AL: "Development of a fluoroelastomer/glass fiber composite flow frame for a vanadium redox flow battery (VRFB)", COMPOSITE STRUCTURES, ELSEVIER SCIENCE LTD, GB, vol. 145, 27 February 2016 (2016-02-27), pages 113 - 118, XP029475894, ISSN: 0263-8223, DOI: 10.1016/J.COMPSTRUCT.2016.02.052
- See references of WO 2018134928A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

DE 202017106988 U1 20171130; AU 2017261462 A1 20180802; AU 2017261462 B2 20221013; CN 108336377 A 20180727; CN 108336377 B 20201201; CN 207834459 U 20180907; EP 3573161 A1 20191127; EP 3573161 A4 20200819; EP 3573161 B1 20210421; JP 6765642 B2 20201007; JP WO2018134928 A1 20191107; KR 101856432 B1 20180509; US 2019221863 A1 20190718; WO 2018134928 A1 20180726

DOCDB simple family (application)

DE 202017106988 U 20171117; AU 2017261462 A 20170118; CN 201810035542 A 20180115; CN 201820059501 U 20180115; EP 17794206 A 20170118; JP 2017001615 W 20170118; JP 2017544043 A 20170118; KR 20177033085 A 20170118; US 201715574898 A 20170118